

Rec'd CT/PTO 12 JUL 2004

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

						REC'D 0-4 MAY 2004	,		
	cant's o		nt's file reference	FOR FURTHER AC	TION See Notification	on WPO PCT camination Report (Form PCT	MPEA/416)		
	International application No.			International filing date (d	lay/month/year)	Priority date (day/month/ye	ar)		
	CA 0			10.01.2003		12.01.2002			
International Patent Classification (IPC) or both national classification and IPC B01J8/06									
Applicant SAUDI BASIC INDUSTRIES CORPORATION et al.									
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
2.	This	This REPORT consists of a total of 4 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						s which have this Authority		
	These annexes consist of a total of sheets.								
3.	This	repoi	t contains indications r	elating to the following ite	ems:				
	ı	⊠	Basis of the opinion						
	is		Priority						
	111			f opinion with regard to ne	ovelty, inventive step	and industrial applicability	•		
1	IV		Lack of unity of inver	ntion					
	V	×	citations and explana	ations supporting such sta	th regard to novelty, atement	inventive step or industrial	applicability;		
	VI		Certain documents of						
	VII			international application					
	VIII	U	Certain observations	on the international appl	ication				
Date of submission of the demand					Date of completion of	this report			
26.	06.20	03			03.05.2004				
Nar prel	ne and iminary	exam	g address of the international succession of the internation	onal	Authorized Officer		September Peters		
-	lis.	n_	ropean Patent Office 80298 Munich		Thomasson, P		((0)		
_		Te Fa	ol. +49 89 2399 - 0 Tx: 52 x: +49 89 2399 - 4465	ocos epmu a	Telephone No. +49 8	9 2399-8339	3 A TO 100 100 100 100 100 100 100 100 100 10		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CA 03/00016

1.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages						
	1-16	3	as originally filed					
	Clai	ms, Numbers						
	1-14	•	as originally filed					
	Dra	wings, Sheets						
	1/3-	3/3	as originally filed					
2.	With lang	n regard to the langu juage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.					
	The	These elements were available or furnished to this Authority in the following language: , which is:						
☐ the language of a translation furnished for the purposes of the international search (under Rule								
		the language of publ	lication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.3	anslation furnished for the purposes of international preliminary examination (under 3).					
3.	With inte	Vith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the nternational preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inte	rnational application in written form.					
		filed together with th	e international application in computer readable form.					
	☐ furnished subsequently to this Authority in written form.							
	☐ furnished subsequently to this Authority in computer readable form.							
		in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.					
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/CA 03/00016

This report has been established as if (some of) the amendments had not been made, since they have 5. 🗆 been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

No:

No:

Yes: Claims

Claims 1-14

1-14

Inventive step (IS)

Yes: Claims

Claims 1-14 No:

Industrial applicability (IA)

Yes: Claims

Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 1.

D1: EP-A-0 715 886 (BASF AG) 12 June 1996 (1996-06-12)

D2: US-A-5 071 627 (CHOI BYUNG C ET AL) 10 December 1991 (1991-12-10)

D3: PATENT ABSTRACTS OF JAPAN vol. 009, no. 317 (C-319), 12 December 1985 (1985-12-12) & JP 60 153936 A (BABCOCK HITACHI KK), 13 August 1985 (1985-08-13)

D4: DE 859 297 C (ERNST SCHMIDT BRAUNSCHWEIG DR) 11 December 1952 (1952-12-11)

D5: US-A-2 778 610 (ERNEST BRUEGGER) 22 January 1957 (1957-01-22)

D6: PATENT ABSTRACTS OF JAPAN vol. 013, no. 273 (C-609), 22 June 1989 (1989-06-22) & JP 01 067246 A (MITSUBISHI ELECTRIC CORP), 13 March 1989 (1989-03-13)

D7: US-A-3 289 644 (NORIO MOTEGI ET AL) 6 December 1966 (1966-12-06)

The present application does not meet the requirement of Article 33(2) PCT for the 2. following reasons:

D1-D7 disclose a tubular reactor having an heat-exchanger shell and at leat one tube within the shell which comprises at least one heat-pipe on its surface in order to regulate the temperature of the reaction (see D1-D7: International Search Report). Therefore the subject-matter of claim 1 is not novel.

The technical features of claims 2-14 are either known from D1-D7 or are considered 3. to be merely one of several possibilities which the skilled-person would select, in accordance with the circumstances, without the exercise of inventive skill. Consequently these claims do not meet the requirement of Article 33(2) and (3) PCT.